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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

PART 1 - SITE INFORMATION AND ASSESSMENT							
II. SITE NAME AND LOCATION							
OI SITE NAME (Legal common, or descriptive name of alle) MURUIN DIL CO.		1 T-4-N, R-7-E					
Hoosier Twishp	104 STATE 05 ZIP CODE 08 COUNTY	07COUNTY OF CONG CODE DIST 005 /9					
38 49 24 DSS 22 47	Sailor Spring	s Quad 15 (214)					
10 DIRECTIONS TO SITE (Starting from nearest public road)	70						
See Attached	See Attached Map						
III. RESPONSIBLE PARTIES							
Gerald Herdes	P. P. #Q						
Ingraham		UNK UNK					
OT OPERATOR (it knows and different from owner) MUTVIN DI I CO	Box 290						
Olney	10 STATE 11 ZIP COOR 12 TELEPH	DNA DNA ONE NUMBER					
13 TYPE OF OWNERSHIP (Check one) A. PRIVATE B. FEDERAL:	□ C. STATE □D.COU	NTY DE MUNICIPAL					
F OTHER:	G. UNKNOWN						
(Specify) 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check of that apply)							
□ A. RCRA 3001 DATE RECEIVED: // / B. UNCONTRO	OLLED WASTE SITE (CERCLA 163 C) DATE REC	EIVED: C. NONE					
IV. CHARACTERIZATION OF POTENTIAL HAZARD							
01 ON SITE INSPECTION BY (Check at their apply)	EPA CONTRACTOR C. STATE	D. OTHER CONTRACTOR					
1 ITYPS DATE / /	FFICIAL D F. OTHER:	(Specify)					
CONTRACTOR NAME(S							
02 SITE STATUS (Chick one) 03 YEARS OF OR	PERATION Uh K BEGINNING YEAR ENDING YEAR	Z UNKNOWN					
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED	DECEMBER OF SHAPE						
Oily Waste (Toxic)							
Heavy Metals (Soluble/Toxic/Persistant)							
06 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION							
<u>-</u>		I					
Ground Water (Population	(Environment)						
Ground Water (Population	(Environment)	1					
Ground Water (Population V. PRIORITY ASSESSMENT	(Environment)						
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste	Information and Part 3 - Description of Hazardous Conditions (nd Incidenta)					
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If righ or medium is checked, complete Part 2 · Waste	information and Part 3 - Description of Hazardous Conditions (und Mocdenta) complete ourrant disposition forms					
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 · Waste 1 A. HIGH (Inspection required promptly) VI. INFORMATION AVAILABLE FROM	Information and Part 3 - Description of Hezerdous Conditions (D. NONE (No further action needed.)	complete ourrant disposition form)					
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 · Waste □ A. HIGH (Inspection required promptly) C. LOW (Inspection required)	Information and Part 3 - Description of Hezerdous Conditions (D. NONE (No further action needed.)						
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 · Waste 1 A. HIGH (Inspection required promptly) VI. INFORMATION AVAILABLE FROM	Information and Part 3 - Description of Hazardous Conditions of D. NONE (The evelable basis) (He further action needed.) pongation) OB ORGANIZATION 07 TELEP	complete ourrant disposition form)					

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

	I. IDENTIFICATION
	01 STATE 02 SITE NUMBER
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PART 2 - WASTE INFORMATION								
II. WASTE ST	TATES, QUANTITIES, AN	ID CHARACTER	ISTICS					
O1 PHYSICAL STATES (Check be find approx): O2 WASTE QUANT (Measures invalid B POWDER, FINES F LIQUID C SLUDGE G GAS		mus ce	of waste quantities independent	O3 WASTE CHARACTERISTICS "Check at India accity! A TOXIC B CORROSIVE C RADIOACTIVE G FLAMMABLE D PERSISTENT H IGNITABLE		UBLE L HIGHLY LECTIOUS J EXPLOS MMABLE K REACTIONS L INCOMP	LE I HIGHLY VOLATILE OUS J EXPLOSIVE ABLE K REACTIVE ILE L INCOMPATIBLE	
. D OTHER	(Specify)	NO OF DRUMS		M NOT APPLICABLE			PLICABLE	
IH. WASTE T	YPE							
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS			
SLU	SLUDGE							
OFA	OILY WASTE		Unk	Unk	Grude	0;1		
SOL	SOLVENTS							
PSD	PESTICIDES							
occ	OTHER ORGANIC CH	1EMICALS	Unk	Unk	Brine	Waste		
100	INORGANIC CHEMIC	ALS		Γ				
ACD	ACIDS							
BAS	BASES		<u> </u>	7				
MES	HEAVY METALS		Unk	Unk	Brice	Waste		
	OUS SUBSTANCES 1500 AG						T college our	
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE DISE	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION	
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V. FEEDSTO	CKS /See Appendix for CAS Mumbe	<u></u>	<u>L</u>	<u> </u>			<u> </u>	
CATEGORY			02 CAS NUMBER	CATEGORY	01 FEEDS	TOCK NAME	02 CAS NUMBER	
FDS			<u> </u>	FOS				
FOS	- 		1	FDS				
FDS			†	FDS				
FDS				FDS				
VI. SOURCES	S OF INFORMATION ICAN	specific references, e.g.	. State files, sample enerysis.	reports)				
	Fede,	ral S.I.	A. #03E	04			-	

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1. IDENTIFICATION

OI STATE OF SITE NUMBER 87/

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 X A. GROUNDWATER CONTAMINATION 600	02 G OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	,	
Highly soluble brine,	vaste placed for dis,	posal in	unlined
Highly soluble brine , lagoon. This practice has i	impacted private wells	at similar	facilities.
01 © B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	L: POTENTIAL	.: ALLEGED
01 E) C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL	C: ALLEGED
01 C D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 I OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	(; POTENTIAL	C ALLEGED
01 E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 (C) OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	⊡ POTENTIAL	ALLEGED
01 XF CONTAMINATION OF SOIL Unk 03 AREA POTENTIALLY AFFECTED: Unk LOSS of production (Abeen noted at similar	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION 9 (and) + damage +0	XPOTENTIAL 501/ Structo	ALLEGED
	(See J following) 02 LI OBSERVED (DATE	_	
01 MG DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED See. A above	02 LI OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL	: ALLEGED 0
01 : H. WORKER EXPOSURE/INJURY 03 : WORKERS POTENTIALLY AFFECTED:	02 (U OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	LI POTENTIAL	C ALLEGED
01 © I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 [] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	[] POTENTIAL	U ALLEGED

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION 01 STATE 02 SITE NUMBER ILD 002 8/3 87/

PRELIMINARY ASSESSMENT
TION OF HAZARDOUS CONDITIONS AND INCIDENTS

PART 3 - DESCRIPTION OF TRAZARDOGG GOTTOTTONS AND INCIDENTS						
IL HAZARDOUS CONDITIONS AND INCIDENTS (Communical)						
01 XJ. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION The near steril	02 [] OBSERVED (DATE:)	POTENTIAL	□ ALLEGED			
increased soil salinity, has a	been noted at other si	milar site	2. Ted 10			
(See F A)	bove) (See 05 other for					
01 CI K. DAMAGE TO FALMA 04 NARRATIVE DESCRIPTION (Include Administration of species)	02 (DATE:)	D POTENTIAL	□ ALLEGED			
01 D. L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 - OBSERVED (DATE:)	☐ POTENTIAL	ALLEGED			
01 [] M UNSTABLE CONTAINMENT OF WASTES (Saits needs standing square learning drums) 03 POPULATION POTENTIALLY AFFECTED.	02 CBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	O POTENTIAL	□ ALLEGED			
01 (. N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 (i OBSERVED (DATE:)	POTENTIAL	□ ALLEGED			
01 C O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	, ———	O POTENTIAL	□ ALLEGED			
01 XP ILLEGALUNAUTHORIZED DUMPING 02 08SERVED (DATE:						
Wis description of any other known potential, or alleged hazards Denuding of soils by brines is deemed leading cause of soil crosion in soveral IL. counties.						
HI. TOTAL POPULATION POTENTIALLY AFFECTED:	600					
IV. COMMENTS						
MURUIN DIT CO Address Unreported Olney, IL 62450	Information on ERRIS	as ar (2-4)	peas			
V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample enerysis, reports)						
S.I.A. study						

EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevent to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy meatals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by <u>USEPA legal staff seems required</u>. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

RML:bf/22



